



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: BORONAT et al. )  
Filed: 06 August 2001 ) Group Art Unit: 1638  
Serial No.: 09/921,992 ) Examiner: Stuart F. Baum  
Title: Methyl-D-Erythritol Phosphate ) Atty Docket No.: MONS:037US  
Pathway Genes ) REN-00-084-US

### TRANSMITTAL LETTER

Mail Stop Information Disclosure Statement  
Commissioner for Patents  
Post Office Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

For the above-referenced application, enclosed please find an Information Disclosure Statement (submitted in duplicate for accounting purposes); Form PTO-1449 on which the citations are listed; and a Return Post Card. Copies of references which had not been previously cited are provided under separate cover.

Respectfully submitted,

*Lois K. Ruszala*  
\_\_\_\_\_  
Lois K. Ruszala, Reg. No. 39,074  
Thomas E. Omholt, Reg. No. 37,052

Renessen LLC  
Legal Dept-Intellectual Property  
3000 Lakeside Drive, Suite 300-South  
Bannockburn, IL 60015  
Phone: 847-457-5000  
Fax: 847-457-5174

### CERTIFICATE OF MAILING

I hereby certify that this document is being deposited with the United States Postal Service with sufficient postage as First Class mail in an envelope addressed to: Mail Stop Information Disclosure Statement, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 30<sup>th</sup> day of March 2004. The enclosures are being deposited under separate cover in 3 boxes addressed to: Mail Stop Information Disclosure Statement, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

*Sandra Paulov*  
\_\_\_\_\_  
Sandra Paulov / Lois Ruszala



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: BORONAT et al. )  
File: 06 August 2001 ) Group Art Unit: 1638  
Serial No.: 09/921,992 ) Examiner: Stuart F. Baum  
Title: Methyl-D-Erythritol Phosphate ) Atty Docket No.: MONS:037US  
Pathway Genes ) REN-00-084-US

**INFORMATION DISCLOSURE STATEMENT**  
**PURSUANT TO 37 C.F.R. §§ 1.97 AND 1.98**

Mail Stop Information Disclosure Statement  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98, applicants wish to bring the following information to the attention of the Examiner in connection with the subject application. A copy of each citation being mailed is included as is Form PTO-1449, on which the citations are listed.

Pursuant to 37 C.F.R. §1.17(p), please charge the One Hundred Eighty Dollars and 00/100 (\$180.00) fee for filing this document to our Deposit Account No. 50-1100. If any additional fee or credit is due, please charge or credit the amount to our Deposit Account No. 50-1100. This authorization is provided in duplicate for accounting purposes.

Applicants wish to bring to the Examiner's attention other pending U.S. applications directed to tocopherol which have been filed on behalf of Monsanto Technology LLC and/or  
04/05/2004 ZJUHAR1...0000061.501100....09921992.....

01 FC:1806 180.00 DA

**CERTIFICATE OF MAILING**

I hereby certify that this document is being deposited with the United States Postal Service with sufficient postage as First Class mail in an envelope addressed to: Mail Stop Information Disclosure Statement, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 30<sup>th</sup> day of March 2004. The enclosures are being deposited under separate cover in 3 boxes addressed to: Mail Stop Information Disclosure Statement, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Sandra Paulov / Lois Ruszal

Calgene LLC. The published applications are set forth in the "Related Patent Documents" section on the Form PTO-1449.

This Disclosure Statement is not intended to substitute for the Examiner's own search. It is believed, however, that this Disclosure Statement will assist the Examiner in the search. The Examiner is expressly requested to review each item cited herein and to make all of the cited items of record in this case as having been considered. The completed Form PTO-1449 is attached for this purpose.

Citation of the items herein is not to be construed as an admission that the information is within the scope and content of the prior art relevant to the present invention, that the information is prior in time to a particular date which may be relevant to the present patent application, that the information is otherwise prior art with respect to the present invention, or that the information cited is material to the claims. In addition, applicants reserve the right to later set forth how the present invention is distinguished over the disclosure of any document or other prior art, including the information cited herein.

Respectfully submitted,

*Lois K. Ruszala*  
\_\_\_\_\_  
Lois K. Ruszala, Reg. No. 39,074  
Thomas E. Omholt, Reg. No. 37,052

Renessen LLC  
Legal Dept - Intellectual Property  
3000 Lakeside Drive, Suite 300-South  
Bannockburn, IL 60015  
Phone: 847-457-5000  
Fax: 847-457-5174

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE		ATTY. DOCKET NO.	SERIAL NO.
O (Rev. 2-32) PATENT AND TRADEMARK OFFICE		MONS:037US REN-00-084	09/921,992
APR 02 2004 INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		APPLICANT	
		BORONAT et al.	
		FILING DATE	GROUP
		August 6, 2001	1638

### "RELATED" U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A	2002/0069426	06 June 02	Boronat et al.			
	A	2002/0108148	08 Aug 02	Boronat et al.			
	A	2003/0148300	07 Aug 03	Valentin et al.			
	A	2003/0150015	07 Aug 03	Norris et al.			
	A	2003/0154513	14 Aug 03	van Eenennaam et al.			
	A	2003/0166205	04 Sep 03	van Eenennaam et al.			
	A	2003/0170833	11 Sep 03	Lassner et al.			
	A	2003/0176675	18 Sep 03	Valentin et al.			
	A	2003/0213017	13 Nov 03	Valentin et al.			
	A	2004/0018602	29 Jan 04	Lassner et al.			
	A	2004/0045051	04 Mar 04	Norris et al.			

### U.S. PATENT DOCUMENTS

	A	4,727,219	23 Feb 88	Brar et al.			
	A	5,304,478	19 Apr 94	Bird et al.			
	A	5,429,939	04 Jul 95	Misawa et al.			
	A	5,432,069	11 Jul 95	Grüninger et al.			
	A	5,545,816	13 Aug 96	Ausich et al.			
	A	5,618,988	08 Apr 97	Hauptmann et al.			
	A	5,684,238	04 Nov 97	Ausich et al.			
	A	5,693,507	02 Dec 97	Daniell et al.			
	A	5,750,865	12 Mar 98	Bird et al.			
	A	5,792,903	11 Aug 98	Hirschberg et al.			
	A	5,876,964	02 Mar 99	Croteau et al.			
	A	5,908,940	01 Jun 99	Lane et al.			
	A	6,281,017	28 Aug 01	Croteau et al.			
	A	6,303,365	16 Oct 01	Martin et al.			
	A	6,541,259	01 Apr 03	Lassner et al.			

\* References were previously cited by the Applicant or by the Examiner and thus copies of these references are not being resubmitted with this statement. Copies of the prior PTO-1449 and -892 forms are enclosed herein. See 37 C.F.R. §1.98(d).

Examiner	Date Considered
----------	-----------------

**EXAMINER:** Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Form PTO-1449 [6-4])

FORM PTO-1449 (Rev. 2.52) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  APR 02 2004 INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (Use several sheets if necessary)		ATTY. DOCKET NO. MONS:037US REN-00-084	SERIAL NO. 09/921,992
		APPLICANT BORONAT et al.	
		FILING DATE August 6, 2001	GROUP 1638

### FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
B	2,372,332	02 Nov 00	Canada			Eng Version of WO 00/65036
B	1 033 405 A2	06 Sep 00	EPO			
B	0 674 000 A2	27 Sep 95	EPO			
B	0 531 639 A2 & A3	17 Mar 93	EPO			
B	0 723 017 A2	24 Jul 96	EPO			
B	0 763 542 A2	19 Mar 97	EPO			
B	1 063 297 A1	27 Dec 00	EPO			NO (DE)
B	2 778 527		FR			YES
B	560,529	07 Apr 44	Great Britain			
B	WO 00/01650	13 Jan 00	PCT			
B	WO 00/08187	17 Feb 00	PCT			
B	WO 00/10380	02 Mar 00	PCT			
B	WO 00/11165	02 Mar 00	PCT			
B	WO 00/14207	16 Mar 00	PCT			
B	WO 00/22150 A3	20 Apr 00	PCT			
B	WO 00/28005	18 May 00	PCT			
B	WO 00/32757 A2 & A3	08 Jun 00	PCT			
B	WO 00/34448	15 Jun 00	PCT			YES
B	WO 00/42205 A2 & A3	20 Jul 00	PCT			
B	WO 00/46346	10 Aug 00	PCT			YES
B	WO 00/61771	19 Oct 00	PCT			
B	WO 00/63389	26 Oct 00	PCT			
B	WO 00/63391	26 Oct 00	PCT			
B	WO 00/65036 A2 & A3	02 Nov 00	PCT			YES CA 2372332
B	WO 00/68393	16 Nov 00	PCT			
B	WO 01/04330	18 Jan 01	PCT			
B	WO 01/09341	08 Feb 01	PCT			

References were previously cited by the Applicant or by the Examiner and thus copies of these references are not being resubmitted with this statement. Copies of the prior PTO-1449 and -892 forms are enclosed herein. See 37 C.F.R. §1.98(d).

Examiner	Date Considered
----------	-----------------

**EXAMINER:** Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Form PTO-1449 [6-4])

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (Rev. 2-32) PATENT AND TRADEMARK OFFICE  APR 02 2004 INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)				ATTY. DOCKET NO. MONS:037US REN-00-084	SERIAL NO. 09/921,992
				APPLICANT BORONAT et al.	
				FILING DATE August 6, 2001	GROUP 1638

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
B	WO 01/12827	22 Feb 01	PCT			
B	WO 01/21650	29 Mar 01	PCT			
B	WO 01/44276	21 Jun 01	PCT			
B	WO 01/62781	30 Aug 01	PCT			Partial
B	WO 01/79472	25 Oct 01	PCT			
B	WO 01/88169 A2 & A3	22 Nov 01	PCT			
B	WO 02/00901 A1	03 Jan 02	PCT			YES
B	WO 02/26933	04 Apr 02	PCT			
B	WO 02/29022	11 Apr 02	PCT			
B	WO 02/31173	18 Apr 02	PCT			YES
B	WO 02/33060	25 Apr 02	PCT			
B	WO 02/46441	13 Jun 02	PCT			
B	WO 02/072848	19 Sep 02	PCT			
B	WO 02/089561	14 Nov 02	PCT			
B	WO 03/034812	01 May 03	PCT			
B	WO 03/047547	12 Jun 03	PCT			
B	WO 91/02059	21 Feb 91	PCT			
B	WO 91/09128	27 Jun 91	PCT			
B	WO 91/13078	05 Sep 91	PCT			
B	WO 93/18158	16 Sep 93	PCT			
B	WO 94/11516	26 May 94	PCT			
B	WO 94/12014	09 Jun 94	PCT			
B	WO 94/18337	18 Aug 94	PCT			
B	WO 95/08914	06 Apr 95	PCT			
B	WO 95/18220	06 Jul 95	PCT			Abstract
B	WO 95/23863	08 Sep 95	PCT			
B	WO 95/34668	21 Dec 95	PCT			
B	WO 96/02650	01 Feb 96	PCT			
B	WO 96/06172	29 Feb 96	PCT			

\* References were previously cited by the Applicant or by the Examiner and thus copies of these references are not being resubmitted with this statement. Copies of the prior PTO-1449 and -892 forms are enclosed herein. See 37 C.F.R. §1.98(d).

Examiner	Date Considered
----------	-----------------

**EXAMINER:** Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Form PTO-1449 [6-4])

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (Rev. 2-22) PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. MONS:037US REN-00-084	SERIAL NO. 09/921,992
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		APPLICANT BORONAT et al.	
		FILING DATE August 6, 2001	GROUP 1638

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
B	WO 96/13149	09 May 96	PCT			
B	WO 96/13159	09 May 96	PCT			
B	WO 96/36717 A2 & A3	21 Nov 96	PCT			
B	WO 96/38567	05 Dec 96	PCT			US equivalent
B	WO 97/17447	15 May 97	PCT			
B	WO 97/27285	31 Jul 97	PCT			
B	WO 97/49816	31 Dec 97	PCT			
B	WO 98/04685	05 Feb 98	PCT			
B	WO 98/06862	19 Feb 98	PCT			
B	WO 98/18910	07 May 98	PCT			
B	WO 99/04021	28 Jan 99	PCT			
B	WO 99/04622	04 Feb 99	PCT			
B	WO 99/06580	11 Feb 99	PCT			
B	WO 99/07867	18 Feb 99	PCT			
B	WO 99/11757	11 Mar 99	PCT			YES
B	WO 99/19460	22 Apr 99	PCT			
B	WO 99/55889	04 Nov 99	PCT			

#### OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

C	ADDLESEE et al., "Cloning, sequencing and functional assignment of the chlorophyll biosyntheses gene, <i>chlP</i> , of <i>Synechocystis</i> sp. PCC 6803", FEBS Letters 389 (1996) 126-130
C	ARANGO et al., "Tocopherol synthesis from homogentisate in <i>Capsicum annuum</i> L. (yellow pepper) chromoplast membranes: evidence for tocopherol cyclase", Biochem J., 336:531-533 (1998)
C	ARIGONI et al., "Terpenoid biosynthesis from 1-deoxy-D-xylulose in higher plants by intramolecular skeletal rearrangement", Proc. Natl. Acad. Sci. USA, 94:10600-10605 (1997)
C	BAYLEY et al., "Engineering 2,4-D resistance into cotton," Theor Appl Genet, 83:645-649 (1992)
C	BENTLEY, R., "The Shikimate Pathway – A Metabolic Tree with Many Branches," Critical Reviews™ in Biochemistry and Molecular Biology; Vol. 25, Issue 5, 307-384 (1990)
C	BEVAN, M., "Binary <i>Agrobacterium</i> vectors for plant transformation", Nucleic Acids Research, 12:8711-8721 (1984)

\* References were previously cited by the Applicant or by the Examiner and thus copies of these references are not being resubmitted with this statement. Copies of the prior PTO-1449 and -892 forms are enclosed herein. See 37 C.F.R. §1.98(d).

Examiner	Date Considered
----------	-----------------

**EXAMINER:** Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Form PTO-1449 [6-4])

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE			ATTY. DOCKET NO.	SERIAL NO.
The 2-32) PATENT AND TRADEMARK OFFICE			MONS:037US REN-00-084	09/921,992
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)			APPLICANT BORONAT et al.	
			FILING DATE August 6, 2001	GROUP 1638

C	BEYER <i>et al.</i> , "Phytoene-forming activities in wild-type and transformed rice endosperm," IRRN 21:2-3, p 44-45 (August-December 1996)
C	BORK <i>et al.</i> , "Go hunting in sequence databases but watch out for the traps", TIG 12, 10:425-427 (October 1996)
C	BOUVIER <i>et al.</i> , "Dedicated Roles of Plastid Transketolases during the Early Onset of Isoprenoid Biogenesis in Pepper Fruits", Plant Physiol., 117:1423-1431 (1998)
C	BRAMLEY <i>et al.</i> , "Biochemical characterization of transgenic tomato plants in which carotenoid synthesis has been inhibited through the expression of antisense RNA to pTOM5," The Plant Journal, 2(3), 343-349 (1992)
C	BREITENBACH <i>et al.</i> , "Expression in <i>Escherichia coli</i> and properties of the carotene ketolase from <i>Haematococcus pluvialis</i> ," FEMS Microbiology Letters 140, 241-246 (1996)
C	BROUN <i>et al.</i> , "Catalytic Plasticity of Fatty Acid Modification Enzymes Underlying Chemical Diversity of Plant Lipids," Science, 282:1315-1317 (1998)
C	BUCKNER <i>et al.</i> , "The y1 Gene of Maize Codes for Phytoene Synthase," Genetics 143:479-488 (May 1996)
C	BURKHARDT <i>et al.</i> , "Genetic engineering of provitamin A biosynthesis in rice endosperm," Experientia, 818-821
C	BURKHARDT <i>et al.</i> , "Transgenic rice ( <i>Oryza sativa</i> ) endosperm expressing daffodil ( <i>Narcissus pseudonarcissus</i> ) phytoene synthase accumulates phytoene, a key intermediate of provitamin A biosynthesis" The Plant Journal, 11(5), 1071-1078 (1997)
C	CAHOON <i>et al.</i> , "Production of Fatty Acid Components of Meadowfoam Oil in Somatic Soybean Embryos," Plant Physiology, 124:243-251 (2000)
C	CHAUDHURI <i>et al.</i> , "The purification of shikimate dehydrogenase from <i>Escherichia coli</i> ," Biochem. J., 226:217-223 (1985)
C	CHENG <i>et al.</i> , "Highly Divergent Methyltransferases Catalyze a Conserved Reaction in Tocopherol and Plastoquinone Synthesis in Cyanobacteria and Photosynthetic Eukaryotes", The Plant Cell, 15:2343-2356 (2003)
C	COLLAKOVA <i>et al.</i> , "Isolation and Functional Analysis of Homogentisate Phytoltransferase from <i>Synechocystis</i> sp. PCC 6803 and <i>Arabidopsis</i> ", Plant Physiology, 127:1113-1124 (2001)
C	COLLAKOVA <i>et al.</i> , "Homogentisate Phytoltransferase Activity is Limiting for Tocopherol Biosynthesis in <i>Arabidopsis</i> ", Plant Physiology, 131:632-642 (Feb. 2003)
C	COLLAKOVA <i>et al.</i> , "Isolation and Characterization of Tocopherol Prenyl Transferase From <i>Synechocystis</i> and <i>Arabidopsis</i> ", Poster Abstract see REN-01-026
C	COOK <i>et al.</i> , "Nuclear Mutations affecting plastoquinone accumulation in maize", Photosynthesis Research, 31:99-111 (1992)
C	CUNILLERA <i>et al.</i> , "Characterization of dehydrodolichyl diphosphate synthase of <i>Arabidopsis thaliana</i> , a key enzyme in dolichol biosynthesis", FEBS Letters, 477:170-174 (2000)
C	d'AMATO <i>et al.</i> , "Subcellular localization of chorismate-mutase isoenzymes in protoplasts from mesophyll and suspension-cultured cells of <i>Nicotiana sylvestris</i> ," Planta, 162:104-108 (1984)
C	DOERKS <i>et al.</i> , "Protein annotation: detective work for function prediction", TIG, 14:248-250 (1998)

\* References were previously cited by the Applicant or by the Examiner and thus copies of these references are not being resubmitted with this statement. Copies of the prior PTO-1449 and -892 forms are enclosed herein. See 37 C.F.R. §1.98(d).

Examiner	Date Considered
----------	-----------------

**EXAMINER:** Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Form PTO-1449 [6-4])

APR 02 2004 INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT  
(Use several sheets if necessary)

ATTY. DOCKET NO. SERIAL NO.

MONS:037US REN-00-084 09/921,992

## APPLICANT

BORONAT et al.

## FILING DATE

August 6, 2001

## GROUP

1638

	C	d'HARLINGUE et al., "Plastid Enzymes of Terpenoid Biosynthesis, Purification and Characterization of $\gamma$ -Tocopherol Methyltransferase from <i>Capsicum</i> Chromoplasts," The Journal of Biological Chemistry, Vol. 260, No. 28, pp. 15200-15203, December 5, 1985
	C	De LUCA, Vincenzo, "Molecular characterization of secondary metabolic pathways", AgBiotech News and Information, 5(6):225N-229N (1993)
	C	DUNCAN et al., "The overexpression and complete amino acid sequence of <i>Escherichia coli</i> 3-dehydroquinase", Biochem. J., 238:475-483 (1986)
	C	DUVOLD et al., "Incorporation of 2-C-Methyl-D-erythritol, a Putative Isoprenoid Precursor in the Mevalonate-Independent Pathway, into Ubiquinone and Menaquinone of <i>Escherichia coli</i> ", Tetrahedron Letters, 38(35):6181-6184 (1997)
	C	ELLIOTT, Thomas, "A Method for Constructing Single-Copy lac Fusions in <i>Salmonella typhimurium</i> and Its Application to the <i>hemA-prfA</i> Operon", Journal of Bacteriology, 174:245-253 (1992)
	C	ERICSON et al., "Analysis of the promoter region of napin genes from <i>Brassica napus</i> demonstrates binding of nuclear protein <i>in vitro</i> to a conserved sequence motif", Eur. J. Biochem., 197:741-746 (1991)
	C	ESTÉVEZ et al., "1-Deoxy-D-xylulose-5-phosphate Synthase, a Limiting Enzyme for Plastidic Isoprenoid Biosynthesis in Plants", The Journal of Biological Chemistry, 276(25):22901-22909 (2001)
	C	FELLERMEIER et al., "Cell-free conversion of 1-deoxy-D-xylulose 5-phosphate and 2-C-methyl-D-erythritol 4-phosphate into $\beta$ -carotene in higher plants and its inhibition by fosmidomycin", Tetrahedron Letters, 40:2743-2746 (1999)
	C	FIEDLER et al., "The formation of homogentisate in the biosynthesis of tocopherol and plastoquinone in spinach chloroplasts", Planta, 155:511-515 (1982)
	C	FOURGOUX-NICOL et al., "Isolation of rapeseed genes expressed early and specifically during development of the male gametophyte", Plant Molecular Biology, 40:857-872 (1999)
	C	FRASER et al., "Enzymic confirmation of reactions involved in routes to astaxanthin formation, elucidated using a direct substrate <i>in vitro</i> assay", Eur. J. Biochem., 252:229-236 (1998)
	C	FRASER et al., "In Vitro Characterization of Astaxanthin Biosynthetic Enzymes", The Journal of Biological Chemistry, 272(10) 6128-6135 (1997)
	C	FRAY et al., "Constitutive expression of a fruit phytoene synthase gene in transgenic tomatoes causes dwarfism by redirecting metabolites from the gibberellin pathway", The Plant Journal, 8(5):693-701 (1995)
	C	FRAY et al., "Identification and genetic analysis of normal and mutant phytoene synthase genes of tomato by sequencing, complementation and co-suppression", Plant Molecular Biology, 22:589-602 (1993)
	C	FUQUA et al., "Characterization of <i>melA</i> : a gene encoding melanin biosynthesis from the marine bacterium <i>Shewanella colwelliana</i> ", Gene, 109:131-136 (1991)
	C	FURUYA et al., "Production of Tocopherols by Cell Culture of Safflower", Phytochemistry, 26(10):2741-2747 (1987)
	C	GARCIA et al., "Subcellular localization and purification of a <i>p</i> -hydroxyphenylpyruvate dioxygenase from cultured carrot cells and characterization of the corresponding cDNA", Biochem. J., 325:761-769 (1997)

\* References were previously cited by the Applicant or by the Examiner and thus copies of these references are not being resubmitted with this statement. Copies of the prior PTO-1449 and -892 forms are enclosed herein. See 37 C.F.R. §1.98(d).

Examiner

Date Considered

**EXAMINER:** Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Form PTO-1449 [6-4])

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE			ATTY. DOCKET NO.	SERIAL NO.
(Rev. 2-32) PATENT AND TRADEMARK OFFICE			MONS:037US REN-00-084	09/921,992
APR 02 2004 INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)			APPLICANT	
			BORONAT et al.	
			FILING DATE	GROUP
			August 6, 2001	1638

	C	GAUBIER et al., "A chlorophyll synthetase gene from <i>Arabidopsis thaliana</i> ", Mol. Gen. Genet., 249:58-64 (1995)
	C	GOERS et al., "Separation and characterization of two chorismate-mutase isoenzymes from <i>Nicotiana silvestris</i> ", Planta, 162:109-116 (1984)
	C	GRABSE et al., "Loss of $\alpha$ -tocopherol in tobacco plants with decreased geranylgeranyl reductase activity does not modify photosynthesis in optimal growth conditions but increases sensitivity to high-light stress", Planta, 213:620-628 (2001)
	C	HARKER et al., "Biosynthesis of ketocarotenoids in transgenic cyanobacteria expressing the algal gene for $\beta$ -C-4-oxygenase, crtO", FEBS Letters, 404:129-134 (1997)
	C	HARKER et al., "Expression of prokaryotic 1-deoxy-D-xylulose-5-phosphatases in <i>Escherichia coli</i> increases carotenoid and ubiquinone biosynthesis", FEBS Letters, 448:115-119 (1999)
	C	HERRMANN, K.M., "The Shikimate Pathway as an Entry to Aromatic Secondary Metabolism", Plant Physiol., 107:7-12 (1995)
	C	HERZ et al., "Biosynthesis of terpenoids: YgbB protein converts 4-diphosphocytidyl-2C-methyl-D-erythritol 2-phosphate to 2C-methyl-D-erythritol 2,4-cyclodiphosphate", Proc. Natl. Acad. Sci. USA, 97(6):2486-2490 (2000)
	C	KAJIWARA et al., "Isolation and functional identification of a novel cDNA for astaxanthin biosynthesis from <i>Haematococcus pluvialis</i> , and astaxanthin synthesis in <i>Escherichia coli</i> ", Plant Molecular Biology, 29:343-352 (1995)
	C	KANEKO et al., "Complete Genomic Sequence of the Filamentous Nitrogen-fixing Cyanobacterium <i>Anabaena</i> sp. Strain PCC 7120", DNA Research, 8(5):205-213 (2001)
	C	KEEGSTRA, K., "Transport and Routing of Proteins into Chloroplasts", Cell, 56(2):247-253 (1989)
	C	KELLER et al., "Metabolic compartmentation of plastid prenyllipid biosynthesis Evidence for the involvement of a multifunctional geranylgeranyl reductase", Eur. J. Biochem., 251:413-417 (1998)
	C	KISHORE et al., "Amino Acid Biosynthesis Inhibitors as Herbicides", Ann. Rev. Biochem., 57:627-663 (1988)
	C	KOZIEL et al., "Optimizing expression of transgenes with an emphasis on post-transcriptional events", Plant Molecular Biology, 32:393-405 (1996)
	C	KUMAGAI et al., "Cytoplasmic inhibition of carotenoid biosynthesis with virus-derived RNA", Proc. Natl. Acad. Sci. USA, 92:1679-1683 (1995)
	C	KUNTZ et al., "Identification of a cDNA for the plastid-located geranylgeranyl pyrophosphate synthase from <i>Capsicum annuum</i> : correlative increase in enzyme activity and transcript level during fruit ripening", The Plant Journal, 2(1):25-34 (1992)
	C	LANGE et al., "A Family of transketolases that directs isoprenoid biosynthesis via a mevalonate-independent pathway", Proc. Natl. Acad. Sci. USA, 95:2100-2104 (1998)
	C	LANGE et al., "Isoprenoid Biosynthesis via a Mevalonate-Independent Pathway in Plants: Cloning and Heterologous Expression of 1-Deoxy-D-xylulose-5-phosphate Reductoisomerase from Peppermint", Archives of Biochemistry and Biophysics, 365(1):170-174 (1999)
	C	LI et al., "Identification of a maize endosperm-specific cDNA encoding farnesyl pyrophosphate synthetase", Gene, 171:193-196 (1996)

\* References were previously cited by the Applicant or by the Examiner and thus copies of these references are not being resubmitted with this statement. Copies of the prior PTO-1449 and -892 forms are enclosed herein. See 37 C.F.R. §1.98(d).

Examiner	Date Considered
----------	-----------------

**EXAMINER:** Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Form PTO-1449 [6-4])

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE			ATTY. DOCKET NO.	SERIAL NO.
(Rev. 3-32) PATENT AND TRADEMARK OFFICE			MONS:037US REN-00-084	09/921,992
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)			APPLICANT BORONAT et al.	
			FILING DATE August 6, 2001	GROUP 1638

	C	LINTHORST <i>et al.</i> , "Constitutive Expression of Pathogenesis-Related Proteins PR-1,GRP, and PR-S in Tobacco Has No Effect on Virus Infection", <i>The Plant Cell</i> , 1:285-291 (1989)
	C	LOIS <i>et al.</i> , "Cloning and characterization of a gene from <i>Escherichia coli</i> encoding a transketolase-like enzyme that catalyzes the synthesis of D-1-deoxyxylulose 5-phosphate, a common precursor for isoprenoid, thiamin, and pyridoxol biosynthesis", <i>Proc. Natl. Acad. Sci. USA</i> , 95(5):2105-2110 (1998)
	C	LOPEZ <i>et al.</i> , "Sequence of the <i>bchG</i> Gene from <i>Chloroflexus aurantiacus</i> : Relationship between Chlorophyll Synthase and other Polypropenyltransferases", <i>Journal of Bacteriology</i> , 178(11):3369-3373 (1996)
	C	LOTAN <i>et al.</i> , "Cloning and expression in <i>Escherichia coli</i> of the gene encoding $\beta$ -C-4-oxygenase, that converts $\beta$ -carotene to the ketocarotenoid canthaxanthin in <i>Haematococcus pluvialis</i> ", <i>FEBS Letters</i> , 364:125-128 (1995)
	C	MAHMOUD <i>et al.</i> , "Metabolic engineering of essential oil yield and composition in mint by altering expression of deoxyxylulose phosphate reductoisomerase and menthofuran synthase", <i>PNAS</i> , 98(15):8915-8920 (2001)
	C	MANDEL <i>et al.</i> , "CLA1, a novel gene required for chloroplast development, is highly conserved in evolution", <i>The Plant Journal</i> , 9(5):649-658 (1996)
	C	MARSHALL <i>et al.</i> , "Biosynthesis of Tocopherols: A Re-Examination of the Biosynthesis and Metabolism of 2-Methyl-6-Phytol-1,4-Benzoquinol", <i>Phytochemistry</i> , 24(8):1705-1711 (1985)
	C	MISAWA <i>et al.</i> , "Expression of an <i>Erwinia</i> phytoene desaturase gene not only confers multiple resistance to herbicides interfering with carotenoid biosynthesis but also alters xanthophyll metabolism in transgenic plants", <i>The Plant Journal</i> , 6(4):481-489 (1994)
	C	MISAWA <i>et al.</i> , "Elucidation of the <i>Erwinia uredovora</i> Carotenoid Biosynthetic Pathway by Functional Analysis of Gene Products Expressed in <i>Escherichia coli</i> ", <i>Journal of Bacteriology</i> , 172(12):6704-6712 (1990)
	C	MISAWA <i>et al.</i> , "Functional expression of the <i>Erwinia uredovora</i> carotenoid biosynthesis gene <i>crtI</i> in transgenic plants showing an increase of $\beta$ -carotene biosynthesis activity and resistance to the bleaching herbicide norflurazon", <i>The Plant Journal</i> , 4(5):833-840 (1993)
	C	MISAWA <i>et al.</i> , "Structure and Functional Analysis of a Marine Bacterial Carotenoid Biosynthesis Gene Cluster and Astaxanthin Biosynthetic Pathway Proposed at the Gene Level", <i>Journal of Bacteriology</i> , 177(22):6575-6584 (1995)
	C	NAKAMURA <i>et al.</i> , "Structural Analysis of <i>Arabidopsis thaliana</i> Chromosome 5. III. Sequence Features of the Regions of 1,191,918 bp Covered by Seventeen Physically Assigned P1 Clones", <i>DNA Research</i> , 4(6):401-414 (1997)
	C	NAWRATH <i>et al.</i> , "Targeting of the polyhydroxybutyrate biosynthetic pathway to the plastids of <i>Arabidopsis thaliana</i> results in high levels of polymer accumulation", <i>Proc. Natl. Acad. Sci. USA</i> , 91:12760-12764 (1994)
	C	NORRIS <i>et al.</i> , "Genetic Dissection of Carotenoid Synthesis in <i>Arabidopsis</i> Defines Plastoquinone as an Essential Component of Phytoene Desaturation", <i>The Plant Cell</i> , 7:2139-2149 (1995)
	C	NORRIS <i>et al.</i> , "Complementation of the <i>Arabidopsis pds1</i> Mutation with the Gene Encoding $\alpha$ -Hydroxyphenylpyruvate Dioxygenase", <i>Plant Physiol.</i> , 117:1317-1323 (1998)
	C	OH <i>et al.</i> , "Molecular Cloning, Expression, and Functional Analysis of a <i>cis</i> -Prenyltransferase from <i>Arabidopsis thaliana</i> ", <i>The Journal of Biological Chemistry</i> , 275(24):18482-18488 (2000)

\* References were previously cited by the Applicant or by the Examiner and thus copies of these references are not being resubmitted with this statement. Copies of the prior PTO-1449 and -892 forms are enclosed herein. See 37 C.F.R. §1.98(d).

Examiner	Date Considered
----------	-----------------

**EXAMINER:** Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Form PTO-1449 [6-4])

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE			ATTY. DOCKET NO.	SERIAL NO.
(Rev. 2-32) PATENT AND TRADEMARK OFFICE			MONS:037US REN-00-084	09/921,992
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)			APPLICANT BORONAT et al.	
			FILING DATE August 6, 2001	GROUP 1638

	C	OKADA <i>et al.</i> , "Five Geranylgeranyl Diphosphate Synthases Expressed in Different Organs Are Localized into Three Subcellular Compartments in <i>Arabidopsis</i> ", <i>Plant Physiology</i> , 122:1045-1056 (2000)
	C	OOMMEN <i>et al.</i> , "The Elicitor-Inducible Alfalfa Isoflavone Reductase Promoter Confers Different Patterns of Developmental Expression in Homologous and Heterologous Transgenic Plants", <i>The Plant Cell</i> , 6:1789-1803 (1994)
	C	OSTER <i>et al.</i> , "The G4 Gene of <i>Arabidopsis thaliana</i> Encodes a Chlorophyll Synthase of Etiolated Plants", <i>Bot. Acta</i> , 110:420-423 (1997)
	C	PEISKER <i>et al.</i> , "Phytol and the Breakdown of Chlorophyll in Senescent Leaves", <i>J. Plant Physiol.</i> , 135:428-432 (1989)
	C	POMPLIANO <i>et al.</i> , "Probing Lethal Metabolic Perturbations in Plants with Chemical Inhibition of Dehydroquinate Synthase", <i>J. Am. Chem. Soc.</i> , 111:1866-1871 (1989)
	C	PORFIROVA <i>et al.</i> , "Isolation of an <i>Arabidopsis</i> mutant lacking vitamin E and identification of a cyclase essential for all tocopherol biosynthesis", <i>PNAS</i> , 99(19):12495-12500 (2002)
	C	RIPPERT <i>et al.</i> , "Molecular and biochemical characterization of an <i>Arabidopsis thaliana</i> arogenate dehydrogenase with two highly similar and active protein domains", <i>Plant Mol. Biol.</i> , 48:361-368 (2002).
	C	RIPPERT <i>et al.</i> , "Engineering Plant Shikimate Pathway for Production of Tocotrienol and Improving Herbicide Resistance", <i>Plant Physiology</i> , 134:92-100 (2004)
	C	RODRIGUEZ-CONCEPCIÓN <i>et al.</i> , "Elucidation of the Methylerythritol Phosphate Pathway for Isoprenoid Biosynthesis in Bacteria and Plastids. A Metabolic Milestone Achieved through Genomics", <i>Plant Physiology</i> , 130:1079-1089 (2002)
	C	RODRIGUEZ-CONCEPCIÓN <i>et al.</i> , "1-Deoxy-D-xylulose 5-phosphate reductoisomerase and plastid isoprenoid biosynthesis during tomato fruit ripening", <i>The Plant Journal</i> , 27(3):213-222 (2001)
	C	ROHDICH <i>et al.</i> , "Cytidine 5'-triphosphate-dependent biosynthesis of isoprenoids: YgbP protein of <i>Escherichia coli</i> catalyzes the formation of 4-diphosphocytidyl-2-C-methylerythritol", <i>Proc. Natl. Acad. Sci. USA</i> , 96(21):11758-11763 (1999)
	C	ROHMER <i>et al.</i> , "Glyceraldehyde 3-Phosphate and Pyruvate as Precursors of Isoprenic Units in an Alternative Non-mevalonate Pathway for Terpenoid Biosynthesis", <i>J. Am. Chem. Soc.</i> , 118:2564-2566 (1996)
	C	ROHMER <i>et al.</i> , "Isoprenoid biosynthesis in bacteria: a novel pathway for the early steps leading to isopentenyl diphosphate", <i>Biochem. J.</i> , 295:517-524 (1993)
	C	ROHMER, M., "A Mevalonate-independent Route to Isopentenyl Diphosphate", <i>Comprehensive Natural Products Chemistry</i> , 2:45-67 (1999)
	C	ROHMER, M., "Isoprenoid biosynthesis via the mevalonate-independent route, a novel target for antibacterial drugs?", <i>Progress in Drug Research</i> , 50:136-154 (1998)
	C	RÖMER <i>et al.</i> , "Expression of the Genes Encoding the Early Carotenoid Biosynthetic Enzymes in <i>Capsicum Annum</i> ", <i>Biochemical and Biophysical Research Communications</i> , 196(3):1414-1421 (1993)
	C	RUZAFÁ <i>et al.</i> , "The protein encoded by the <i>Shewanella colwelliana</i> melA gene is a p-hydroxyphenylpyruvate dioxygenase", <i>FEMS Microbiology Letters</i> , 124:179-184 (1994)

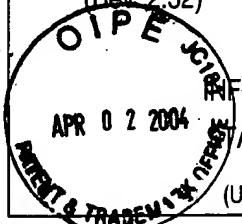
\* References were previously cited by the Applicant or by the Examiner and thus copies of these references are not being resubmitted with this statement. Copies of the prior PTO-1449 and -892 forms are enclosed herein. See 37 C.F.R. §1.98(d).

Examiner	Date Considered
----------	-----------------

**EXAMINER:** Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Form PTO-1449 [6-4])

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE		ATTY. DOCKET NO.	SERIAL NO.
(Rev. 2.32) PATENT AND TRADEMARK OFFICE		MONS:037US REN-00-084	09/921,992
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		APPLICANT BORONAT et al.	
		FILING DATE August 6, 2001	GROUP 1638



C	SAINT-GUILY et al., "Complementary DNA Sequence of an Adenylate Translocator from <i>Arabidopsis thaliana</i> ", Plant Physiol., 100(2):1069-1071 (1992)
C	SANDMANN et al., "New functional assignment of the carotenogenic genes <i>crtB</i> and <i>crtE</i> with constructs of these genes from <i>Erwinia</i> species", FEMS Microbiology Letters, 90:253-258 (1992)
C	SATO et al., "Structural Analysis of <i>Arabidopsis thaliana</i> Chromosome 5. X. Sequence Features of the Regions of 3,076,755 bp Covered by Sixty P1 and TAC Clones", DNA Research, 7(1):31-63 (2000)
C	SATO et al., "Structural Analysis of <i>Arabidopsis thaliana</i> Chromosome 5. IV. Sequence Features of the Regions of 1,456,315 bp Covered by Nineteen Physically Assigned P1 and TAC Clones", DNA Research, 5:41-54 (1998)
C	SAVIDGE et al., "Isolation and Characterization of Homogenisate Phytoltransferase Genes from <i>Synechocystis</i> sp. PCC 6803 and <i>Arabidopsis</i> ", Plant Physiology, 129:321-332 (2002)
C	SCHWENDER et al., "Cloning and heterologous expression of a cDNA encoding 1-deoxy-D-xylulose-5-phosphate reductoisomerase of <i>Arabidopsis thaliana</i> ", FEBS Letters, 455:140-144 (1999)
C	SCOLNIK et al., "Nucleotide Sequence of an <i>Arabidopsis</i> cDNA for Geranylgeranyl Pyrophosphate Synthase", Plant Physiol., 104(4):1469-1470 (1994)
C	SHEWMAKER et al., "Seed-specific overexpression of phytoene synthase: increase in carotenoids and other metabolic effects", The Plant Journal, 20(4):401-412 (1999)
C	SHIGEOKA et al., "Isolation and properties of $\gamma$ -tocopherol methyltransferase in <i>Euglena gracilis</i> ", Biochimica et Biophysica Acta, 1128: 220-226 (1992)
C	SHINTANI et al., "Elevating the Vitamin E Content of Plants Through Metabolic Engineering", SCIENCE, 282:2098-2100 (1998)
C	SINGH et al., "Chorismate Mutase Isoenzymes from <i>Sorghum bicolor</i> . Purification and Properties", Archives of Biochemistry and Biophysics, 243(2):374-384 (1985)
C	SMITH, F.W. et al., "The cloning of two <i>Arabidopsis</i> genes belonging to a phosphate transporter family", Plant Journal, 11(1):83-92 (1997)
C	SMITH, C.J.S. et al., "Antisense RNA inhibition of polygalacturonase gene expression in transgenic tomatoes", Nature, 334:724-726 (1998)
C	SMITH, T.F. et al., "The challenges of genome sequence annotation or "the devil is in the details", Nature Biotechnology, 15:1222-1223 (1997)
C	SOLL et al., "Hydrogenation of Geranylgeraniol", Plant Physiol., 71:849-854 (1983)
C	SOLL et al., "Tocopherol and Plastoquinone Synthesis in Spinach Chloroplasts Subfractions", Archives of Biochemistry and Biophysics, 204(2):544-550 (1980)
C	SOLL et al., "2-Methyl-6-Phytolquinol and 2,3-Dimethyl-5-Phytolquinol as Precursors of Tocopherol Synthesis in Spinach Chloroplasts", Phytochemistry, 19:215-218 (1980)

\* References were previously cited by the Applicant or by the Examiner and thus copies of these references are not being resubmitted with this statement. Copies of the prior PTO-1449 and -892 forms are enclosed herein. See 37 C.F.R. §1.98(d).

Examiner	Date Considered
----------	-----------------

**EXAMINER:** Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Form PTO-1449 [6-4])

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE		ATTY. DOCKET NO.	SERIAL NO.
PATENT AND TRADEMARK OFFICE		MONS:037US REN-00-084	09/921,992
APR 02 2004 INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		APPLICANT BORONAT et al.	
		FILING DATE August 6, 2001	GROUP 1638

C	SPRENGER et al., "Identification of a thiamin-dependent synthase in <i>Escherichia coli</i> required for the formation of the 1-deoxy-D-xylulose 5-phosphate precursor to isoprenoids, thiamin, and pyridoxol", Proc. Natl. Acad. Sci. USA, 94:12857-12862 (1997)
C	SPURGEON et al., "Biosynthesis of Isoprenoid Compounds", 1:1-45 (1981)
C	STAM et al., "The Silence of Genes in Transgenic Plants", Annals of Botany, 79:3-12 (1997)
C	STOCKER et al., "Identification of the Tocopherol-Cyclase in the Blue-Green Algae <i>Anabaena variabilis</i> KÜTZING (Cyanobacteria)", Helvetica Chimica Acta, 76:1729-1738 (1993)
C	STOCKER et al., "The Substrate Specificity of Tocopherol Cyclase", Bioorganic & Medicinal Chemistry, 4(7):1129-1134 (1996)
C	SUN et al., "Cloning and Functional Analysis of the $\beta$ -Carotene Hydroxylase of <i>Arabidopsis thaliana</i> ", The Journal of Biological Chemistry, 271(40):24349-24352 (1996)
C	SUZICH et al., "3-Deoxy-D-arabino-Heptulosonate 7-Phosphate Synthase from Carrot Root ( <i>Daucus carota</i> ) Is a Hysteretic Enzyme", Plant Physiol., 79:765-770 (1985)
C	SVAB et al., "High-frequency plastid transformation in tobacco by selection for a chimeric <i>aadA</i> gene", Proc. Natl. Acad. Sci. USA, 90:913-917 (1993)
C	SVAB et al., "Stable transformation of plastids in higher plants", Proc. Natl. Acad. Sci. USA, 87:8526-8530 (1990)
C	TAKAHASHI et al., "A 1-deoxy-D-xylulose 5-phosphate reductoisomerase catalyzing the formation of 2-C-methyl-D-erythritol 4-phosphate in an alternative nonmevalonate pathway for terpenoid biosynthesis", Proc. Natl. Acad. Sci. USA, 95:9879-9884 (1998)
C	TAKATSUJI, H., "Zinc-finger transcription factors in plants", CMLS Cell. Mol. Life Sci., Birkhauser Verlag Basel CH, 54(6):582-596 (1998)
C	TJADEN et al., "Altered plastidic ATP/ADP-transporter activity influences potato ( <i>Solanum tuberosum</i> L.) tuber morphology, yield and composition of tuber starch", The Plant Journal, 16(5):531-540 (1998)
C	TOWN et al., "Whole genome shotgun sequencing of <i>Brassica oleracea</i> , BOGKS71TR BOGK <i>Brassica oleracea</i> genomic clone BOGKS71, DNA sequence", Database EMBL Accession No. BH534089 (Dec 2001)
C	TOWN et al., "Whole genome shotgun sequencing of <i>Brassica oleracea</i> , BOGAU46TR BOGA <i>Brassica oleracea</i> genomic clone BOGAU46, DNA sequence", Database EMBL Accession No. BH248880 (Nov 2001)
C	VERWOERT et al., "Developmental specific expression and organelle targeting of the <i>Escherichia coli</i> <i>fabD</i> gene, encoding malonyl coenzyme A-acyl carrier protein transacylase in transgenic rape and tobacco seeds", Plant Molecular Biology, 26:189-202 (1994)
C	XIA et al., "A monofunctional prephenate dehydrogenase created by cleavage of the 5' 109 bp of the <i>tyrA</i> gene from <i>Erwinia herbicola</i> ", Journal of General Microbiology, 138(7):1309-1316 (1992)
C	XIA et al., "The <i>pheA</i> / <i>tyrA</i> / <i>aroF</i> Region from <i>Erwinia herbicola</i> : An Emerging Comparative Basis for Analysis of Gene Organization and Regulation in Enteric Bacteria", Database GENBANK on STN, GenBank ACC. NO. (GBN): M74133, J. Mol. Evol., 36(2):107-120 Abstract (1993)
C	YAMAMOTO, E., "Purification and Metal Requirements of 3-Dehydroquinate Synthase from <i>Phaseolus Mungo</i> Seedlings", Phytochemistry, 19:779-781 (1980)

\* References were previously cited by the Applicant or by the Examiner and thus copies of these references are not being resubmitted with this statement. Copies of the prior PTO-1449 and -892 forms are enclosed herein. See 37 C.F.R. §1.98(d).

Examiner	Date Considered
----------	-----------------

**EXAMINER:** Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Form PTO-1449 [6-4])

APR 02 2004  
INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT  
(Use several sheets if necessary)

	C	ZAKA et al., "Changes in Carotenoids and Tocopherols During Maturation of <i>Cassia</i> Seeds", Pakistan J. Sci. Ind. Res., 30(11): 812-814 (1987)
	C	ZEIDLER et al., "Inhibition of the Non-Mevalonate 1-Deoxy-D-xylulose-5-phosphate Pathway of Plant Isoprenoid Biosynthesis by Fosmidomycin", A Journal of Biosciences, Zeitschrift fuer Naturforschung, Section C, 53(11/12):980-986 (November/December 1998)
	C	ZHU et al., "Geranylgeranyl pyrophosphate synthase encoded by the newly isolated gene <i>GGPS6</i> from <i>Arabidopsis thaliana</i> is localized in mitochondria", Plant Molecular Biology, 35:331-341 (1997)
	C	ZHU et al., "Cloning and Functional Expression of a Novel Geranylgeranyl Pyrophosphate Synthase Gene from <i>Arabidopsis thaliana</i> in <i>Escherichia coli</i> ", Plant Cell Physiol., 38(3):357-361 (1997)
	C	KANEKO et al., NCBI General Identifier Number 1653572, Accession Number BAA18485 (Jul 2001)
	C	KANEKO et al., NCBI General Identifier Number 1001725, Accession Number BAA10562 (Feb 2003)
	C	ALCALA et al., Genbank Accession Number AI 897027 (Jul 1999)
	C	BEVAN et al., Database EMBL, Accession No. AL035394 (Feb 1999)
	C	BEVAN et al., TREMBL Database Accession No. O65524 (Aug 1998)
	C	CAMPOS et al., NCBI General Identifier BAA 18485, Database EMBL, Accession No.: AF148852, (2000)
	C	CHEN et al., EMBL Sequence Database Accession No. AI995392 (Sep 1999)
	C	DESPREZ et al., Database EMBL, Accession No. Z34566 (Jun 1994)
	C	FEDENKO et al., Abstract: RU 2005353, Derwent Accession Number: 1994-253787
	C	GAUBIER et al., Database EMBL, Accession No. Q38833 (Nov 1996)
	C	KANEKO et al., Database EMBL, Accession No. P73726 (Feb 1997)
	C	KANEKO et al., Database EMBL, Accession No. P73962 (Jul 1998)
	C	KANEKO et al., EMBL Sequence Database Accession No. D90909 (Oct 1996)
	C	KANEKO et al., TREMBL Database Accession No. P73727 (Feb 1997)
	C	LANGE et al., "Mentha x Piperita 1-deoxy-D-xylulose-5-phosphate Reductoisomerase (DXR) mRNA", complete cds, Entrez Report, Accession No. AF116825 (Apr 1999)
	C	LIN et al., Database EMBL, Accession No. AC003672 (Dec 1997)
	C	LIN et al., Database EMBL, Accession No. AC003673 (Dec 1997)
	C	LIN et al., Database EMBL, Accession No. AC004077 (Feb 1998)
	C	MALAKHOV et al., Database TREMBL, Accession No. Q55207 (Nov 1996)
	C	MURATA et al., EMBL Sequence Database Accession No. D13960 (Mar 1996)

\* References were previously cited by the Applicant or by the Examiner and thus copies of these references are not being resubmitted with this statement. Copies of the prior PTO-1449 and -892 forms are enclosed herein. See 37 C.F.R. §1.98(d).

Examiner

Date Considered

**EXAMINER:** Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Form PTO-1449 [6-4])

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE		ATTY. DOCKET NO.	SERIAL NO.
(Rev. 9-32) PATENT AND TRADEMARK OFFICE		MONS:037US REN-00-084	09/921,992
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		APPLICANT BORONAT et al.	
		FILING DATE August 6, 2001	GROUP 1638

C	NAKAMURA <i>et al.</i> , Database EMBL, Accession No.: AB009053, Abstract (Dec 1997) (1998)(2000)
C	NEWMAN <i>et al.</i> , Database EMBL, Accession No.: AA586087, Abstract (Sep 1997)
C	NEWMAN <i>et al.</i> , Database EMBL, Accession No. R30625 (Aug 1995)
C	NEWMAN <i>et al.</i> , Database EMBL, Accession No. T44803 (Feb 1995)
C	NEWMAN <i>et al.</i> , DEBEST ID:1262303, Entrez Report, Accession No.: AA586087 (Sep 1997)
C	OSTER <i>et al.</i> , Database Biosis, Accession No. PREV199800047824 (Oct. 1997)
C	OUYANG <i>et al.</i> , Database EMBL, Accession No. AF381248 (Jan 2003)
C	ROUNSLEY <i>et al.</i> , Database EMBL, Accession No. B24116 (Oct 1997)
C	ROUNSLEY <i>et al.</i> , Database EMBL, Accession No. B29398 (Oct 1997)
C	ROUNSLEY <i>et al.</i> , Database TREMBL, Accession No. 064684 (Aug 1998)
C	SCHWENDER <i>et al.</i> , Arabidopsis thaliana mRNA for Partial 1-deoxy-d-xylulose-5-phosphate Reductoisomerase (dxr gene), Entrez Report, Accession No.: AJ242588 (Aug 1999)
C	SCOLNIK <i>et al.</i> , Database EMBL, Accession No. L40577 (Apr 1995)
C	SHINTANI <i>et al.</i> , Database NCBI, Accession No. AF104220 (Jan 1999)
C	SHOEMAKER <i>et al.</i> , Database EMBL, Accession No. AI748688 (Jun 1999)
C	SHOEMAKER <i>et al.</i> , Database EMBL, Accession No. AI938569 (Aug 1999)
C	SHOEMAKER <i>et al.</i> , Database EMBL, Accession No. AI988542 (Sept 1999)
C	SHOEMAKER <i>et al.</i> , Database EMBL, Accession No. AW306617 (Jan 2000)
C	TABATA <i>et al.</i> , Database EMBL, Accession No. D64001 (Sep 1995)
C	TABATA <i>et al.</i> , Database EMBL, Accession No. D64006 (Sep 1995)
C	TABATA <i>et al.</i> , Database EMBL, Accession No. D90909 (Oct 1996)
C	TABATA <i>et al.</i> , Database EMBL, Accession No. D90911 (Oct 1996)
C	TABATA <i>et al.</i> , Database EMBL, Accession No. Q55145 (Nov 1996)
C	TABATA <i>et al.</i> , Database EMBL, Accession No. Q55500 (Nov 1996)
C	WALBOT, V., Database EMBL, Accession No. AI795655 (Jul 1999)
C	XIA <i>et al.</i> , Database EMBL, Accession No. M74133 (Jun 1993)
C	BEVAN <i>et al.</i> , Accession T4 8445

\* References were previously cited by the Applicant or by the Examiner and thus copies of these references are not being resubmitted with this statement. Copies of the prior PTO-1449 and -892 forms are enclosed herein. See 37 C.F.R. §1.98(d).

Examiner	Date Considered
----------	-----------------

**EXAMINER:** Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Form PTO-1449 [6-4])

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE			ATTY. DOCKET NO.	SERIAL NO.
PATENT AND TRADEMARK OFFICE			MONS:037US REN-00-084	09/921,992
APR 02 2004 INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)			APPLICANT BORONAT et al.	
			FILING DATE August 6, 2001	GROUP 1638

	C	International Search Report, PCT/US00/10367, pp. 1-5 (September 15, 2000)
	C	International Search Report, PCT/US00/10368, pp. 1-14 (June 15, 2001)
	C	Written Opinion, PCT/US00/10368, pp. 1-6 (May 9, 2002)
	C	IPER, PCT/US00/10368, pp. 1-5 (August 16, 2002)
	C	Examination Report, New Zealand Patent Application No. 514600, based on PCT/US/00/10368, pp. 1-2 (April 24, 2003)
	C	Communication pursuant to Article 96(2) EPC, EP Application 00922287.8, based on PCT/US00/10368, pp. 1-6 (October 17, 2003)
	C	Examiner's Report No. 2, Australia Patent Application No. 42492/00, based on PCT/US00/10368, pp. 1-4 (November 12, 2003)
	C	International Search Report, PCT/US01/12334, pp. 1-5 (April 5, 2002)
	C	International Search Report, PCT/US01/24335, pp. 1-8 (March 6, 2003)
	C	International Search Report, PCT/US01/42673, pp. 1-4
	C	International Search Report, PCT/US02/03294, pp. 1-4 (March 19, 2003)
	C	International Search Report, PCT/US02/13898, pp. 1-3 (September 13, 2002)
	C	IPER, PCT/US02/13898, pp. 1-4 (April 24, 2003)
	C	International Search Report, PCT/US02/14445, pp. 1-6 (October 30, 2003)
	C	International Search Report, PCT/US02/26047, pp. 1-5 (December 5, 2003)
	C	International Search Report, PCT/US02/34079, pp. 1-5 (July 28, 2003)
	C	Written Opinion, PCT/US02/34079, pp. 1-4 (October 23, 2003)
	C	Response to Written Opinion, PCT/US02/34079, pp. 1-6 (December 22, 2003)
	C	slr 1736 cyanobase <a href="http://www.kazusa.com">www.kazusa.com</a>

• References were previously cited by the Applicant or by the Examiner and thus copies of these references are not being resubmitted with this statement. Copies of the prior PTO-1449 and -892 forms are enclosed herein. See 37 C.F.R. §1.98(d).

Examiner	Date Considered
----------	-----------------

**EXAMINER:** Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Form PTO-1449 [6-4])